

PULTRUDED FIBERGLASS REINFORCED PLASTIC
UNDERGROUND VAULT CONSTRUCTION
ABSTRACT OF THE DISCLOSURE

A buried vault enclosure of fiber reinforced plastic, wherein earth material, such as dirt, sand, and rocks, substantially covers the entire enclosure. The vault enclosure includes a plurality of prefabricated panels formed from pultruded members having a plastic reinforced composition. The prefabricated panels, includes a plurality of bonded vertical panels, a floor

5 panel attached to a lower end of the vertical panels; and a ceiling panel attached to an upper end of the vertical panels. The pultruded panels for constructing the vault enclosure include an outer planar sheet, an inner planar sheet and a plurality of support members that are spaced from each other. The support members are bonded or integrally connected between the inner sheet and the outer sheet so that the inner and outer sheets sandwich the support members.

10 Each support member preferably includes opposing substantially planar surfaces for supporting the inner and outer sheets and a web member between the planner surface. A method of making a vault enclosure includes pultruding a plurality of panel members, including sheets, support members and angles members. Another step includes assembling or connecting the panel members together to form a plurality of panels for constructing the

15 enclosure. The method further includes forming the enclosure by bonding the panels together with an adhesive or an adhesive system.